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# SiteUSB Device Server



## User's Manual

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## About this Manual

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This manual contains operational information for Site-Log Data Loggers. Please read this manual before using the data loggers.

### Limits of Liability and Disclaimer of Warranty:

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MEI warrants its product(s) to be free from defects in materials and workmanship for a period of one year from the date of registered purchase. Any unit which is found to be defective will, at the discretion of MEI, be repaired or replaced.

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MEI reserves the right to alter any feature or specification at any time.

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Defective Product Return:

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Method of Return:

Prior to returning the product, completely fill out the RMA Application Form, send it to MEI or contact MEI directly for a Return Material Authorization number. All products returned to MEI must be securely packaged in the original shipping materials and reach MEI without damage and shipped in accordance with Applicable laws, rules, and regulations. The products must contain all software and accessories that were shipped to the Buyer in connection with the product.

5. MEI reserves the right to alter any feature or specification at any time.

## Notes to Buyer:

If you disagree with any of the above terms or conditions you should promptly return the unit to the manufacturer or distributor within 30 days from date of purchase.

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## 1. What's In the Box

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- ☑ 1 - Site USB Device Server
- ☑ 1 - Power cable
- ☑ 1 – Network cable

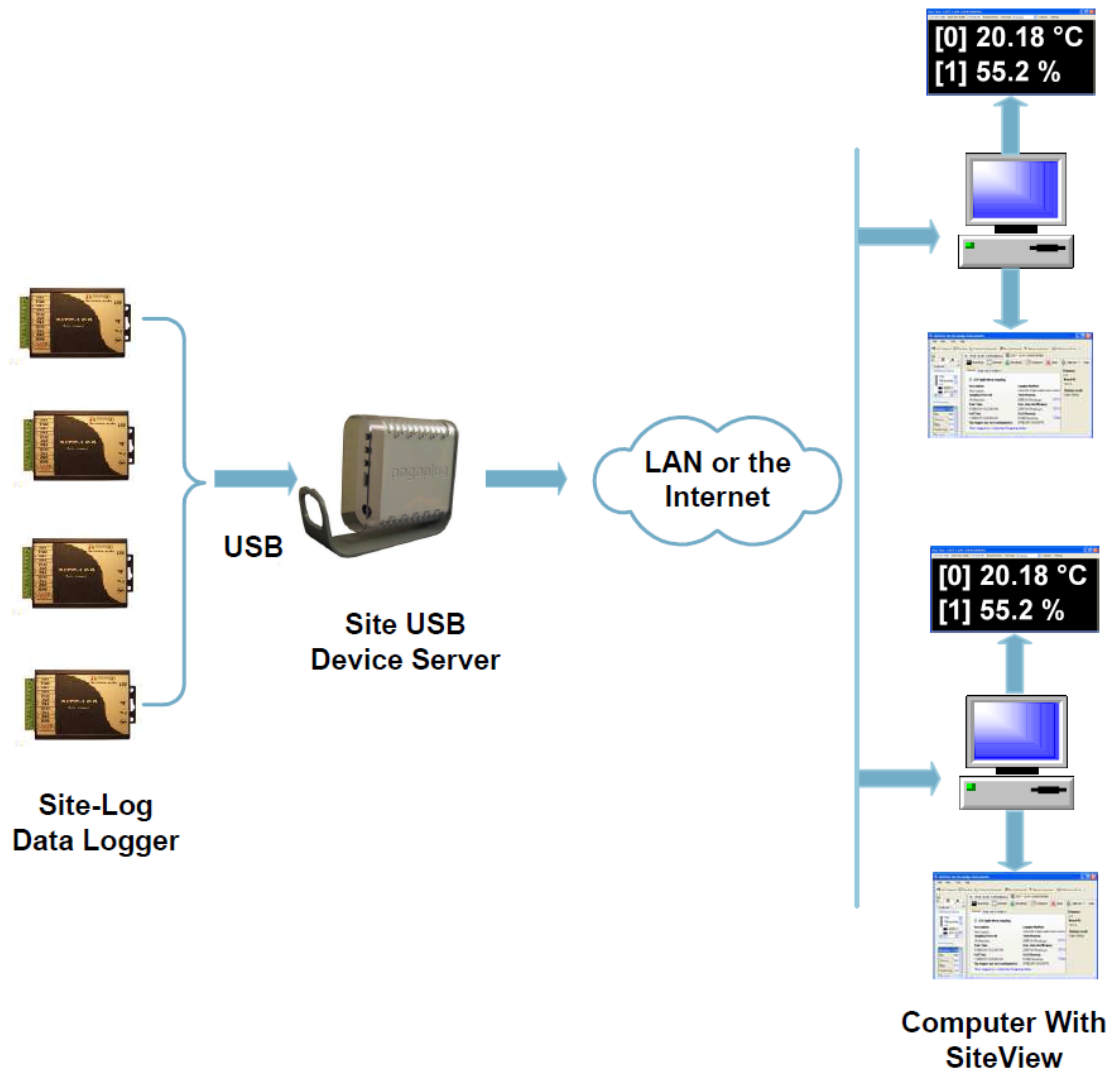


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## 2. Introduction

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Site USB Device Server is an USB-over Ethernet device server which enables work with the remote Site-Log data loggers over a local network or Internet as if they were connected directly to the local PC.



Site USB Device Server uses off-the-shelf product PogoPlug hardware as the platform with the only dedicated software enabled to handle the communications between the Ethernet and the Site-Log data loggers.

All original functions of PogoPlug are disabled.

**WARNING:** PLEASE DO NOT TRY TO ENABLE OTHER SERVICE THAT MICROEDGE DOES NOT SUPPORT.

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## 3. Installation

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### Connect to Data Loggers

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Site USB Device Server can connect up to 25 Site-Log data loggers. The first four data loggers can be plugged directly to the available USB ports:



You can connect USB hub to extend the USB ports.

Since all data loggers are powered by the Device Server, if the connected data loggers will be more than 10, please use +5VDC self-powered USB hub for the rest of the data loggers.

### Connect to Network

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Use the provided Ethernet cable to connect the Device Server directly to the Ethernet network:



The Device Server will accept the IP address that the DHCP server assigned for it. You may find it from your router's DHCP settings or obtain it from the administrator.

## **Power Up**

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Connect the device to the power source with the provided power cord. The Device Server accepts 110 – 240VAC, 50 - 60HZ.





The device needs 100 seconds start-delay in order to finish the initialization. Do not try to communicate with the device within this period of time.

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## 4. Accessing Data Loggers

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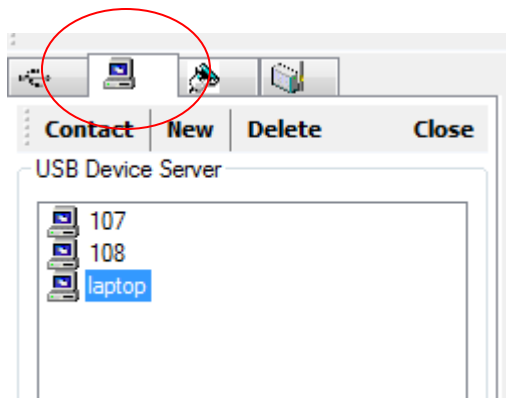
SiteView Windows software is used to communicate with the Site-Log data logger for data downloading, logging management, and channel range configuration.

### Create Connection

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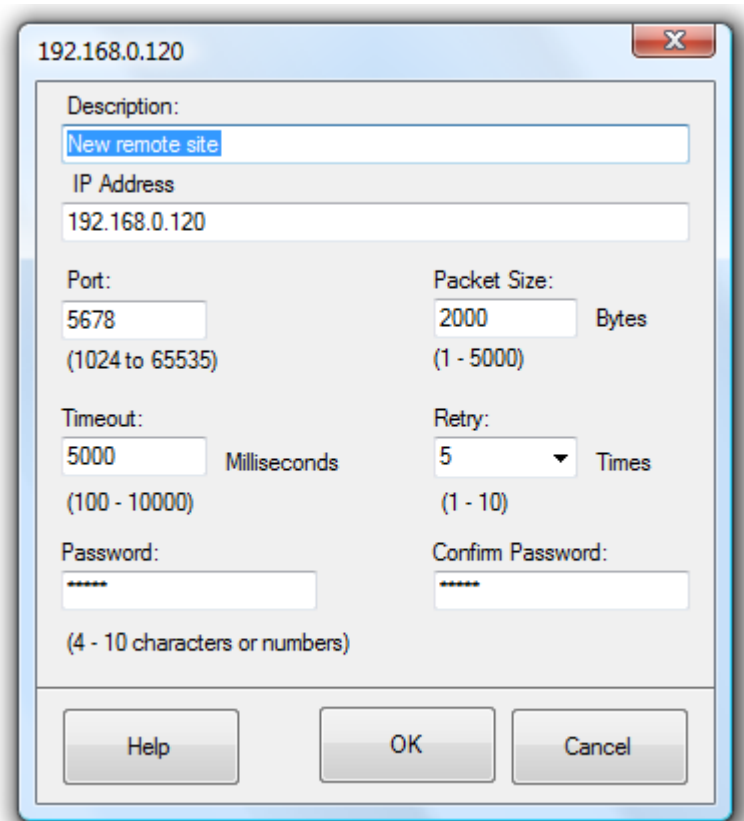
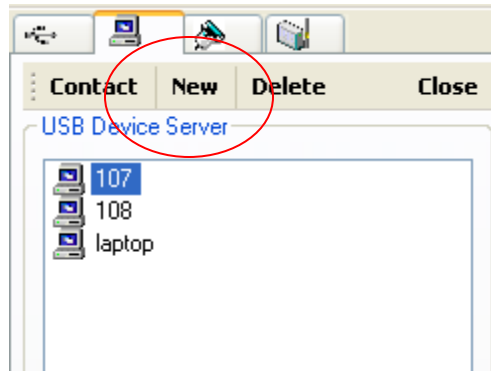
In order to communicate with the Device Server you need to create a Connection.

- Launch SiteView
- Click “USB Device Server” tab on the communication panel:



- Create Connection:

Click “New” button to show a new Connection dialog:



Enter the description about this connection.  
Change the IP address to the one that you got in the preceding steps.

You can keep all other settings default.

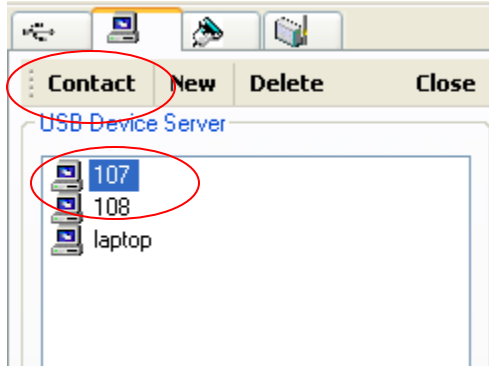
The default password for the Device Server is 12345.

Click OK to save the Connection and close the dialog.

## Access Data Logger

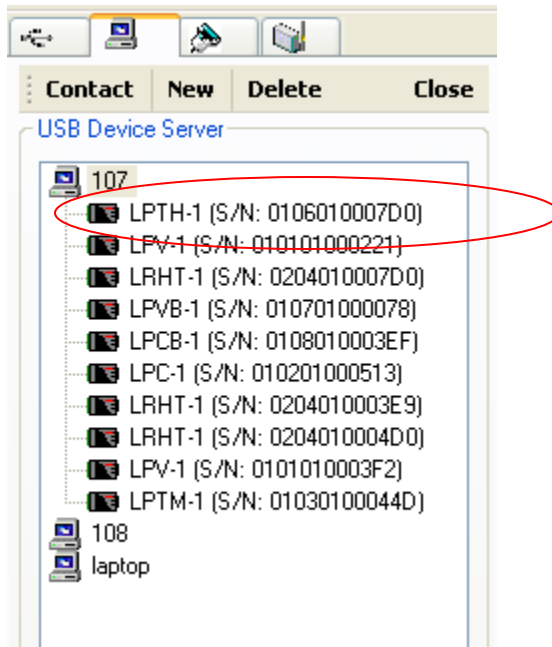
---

- Select the new created Connection icon:



Click “Contact” button or double click the icon to start the communications.

On success, the data logger icon ([Model] (S/N)) will appear under the Connection.



Double click the data logger icon to load the status of the data logger:

LPTH-1 (S/N: 0106010007D0)

Real-Time
 Refresh
 Download
 Configure
 Clear
 Calibrate ▾

General

Alarm and Excitation

☒ LED light when sampling

**Description:**  
New Logger

**Sampling Interval:**  
20 Seconds

**Start Time:**  
07/06/2011 8:19:03 PM

**End Time:**  
09/06/2011 9:18:43 PM

**The logger was last configured at:** 07/06/2011 8:18:53 PM

**Logging Method:**  
Overwrite oldest data when memory full

**Total Memory:**  
2095104 Readings 60 Days 14 Hours 56 Minutes

**User Selected Memory:**  
2095104 Readings 60 Days 14 Hours 56 Minutes

**Used Memory:**  
70560 Readings 2 Days 1 Hours (3.4%)

**The logger is currently logging data**

Channels:

Channel #	Enabled	Description	Equation	Cali. Low	Cali. High
0 [ Thermistor ]	<input checked="" type="checkbox"/>	CH0	Temperature	0	0
1 [ External Thermistor ]	<input checked="" type="checkbox"/>	CH1	Resistance	0	0
2 [ External Thermistor ]	<input checked="" type="checkbox"/>	CH2	Resistance	0	0
3 [ External Thermistor ]	<input checked="" type="checkbox"/>	CH3	Resistance	0	0
4 [ External Thermistor ]	<input checked="" type="checkbox"/>	CH4	Resistance	0	0
5 [ External Thermistor ]	<input checked="" type="checkbox"/>	CH5	Resistance	0	0
6 [ External Thermistor ]	<input checked="" type="checkbox"/>	CH6	Resistance	0	0
7 [ External Thermistor ]	<input checked="" type="checkbox"/>	CH7	Resistance	0	0

If you have more than one data logger connected to the Device Server, you will see more logger icons under the Connection. You can double click any of them to show their status in the status panel.

Note: You can only view one status of the logger under the same connection at a time. If you want to view real-time view of multiple data loggers you need to create multiple connections.

## 4. Device Server Settings

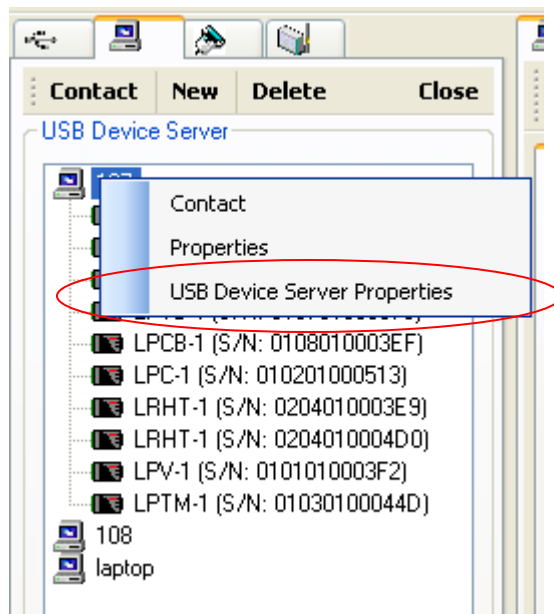
You can change the password and the port number of the Device Server from SiteView.

When the Device Server is released from the factory, the default password is 12345. We recommend you change the password immediately for security purpose.

If you have multiple Device Servers and they are under a router and you want them to be exposed to the Internet, you may need to assign different ports to different Device Servers. Once you finished the redirection in the router's configuration you can visit all Device Servers from outside.

To change the settings:

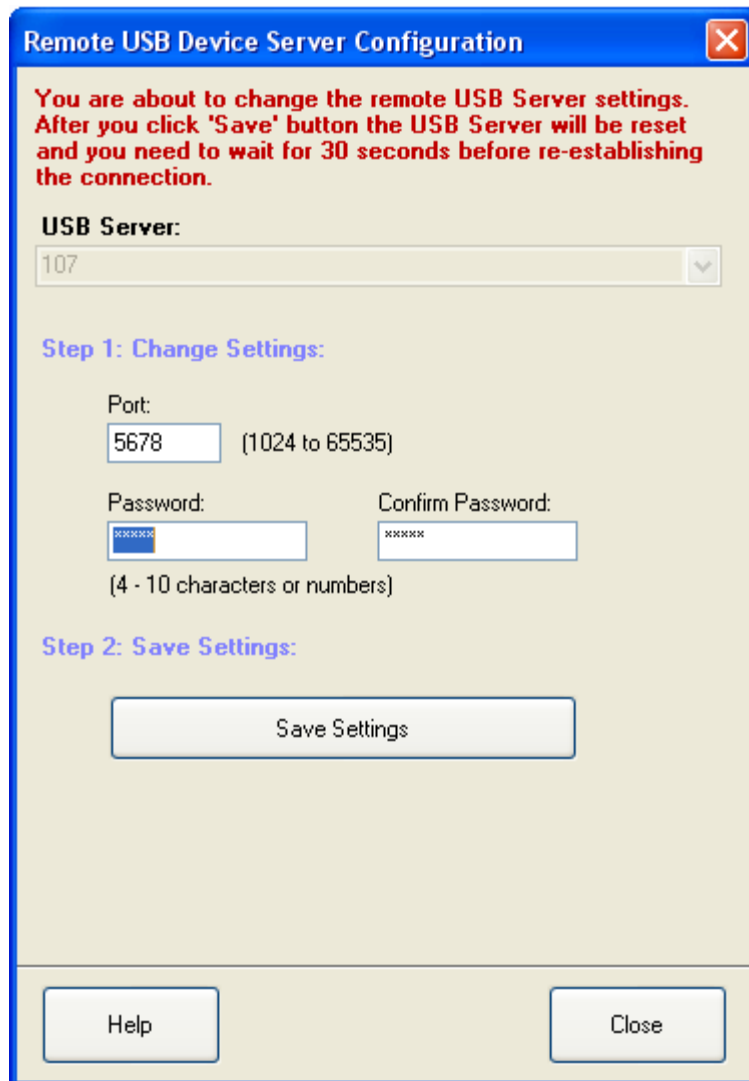
- Double click on the Connection icon to establish the communications with the Device Server.
- Right click on the Connection and select "USB Device Server Properties".



- Type in the existing password. (The factory default password is 12345).



- In the "Remote USB Device Server Configuration" dialog, change the password and the port and click "Save Settings".



The image shows a Windows-style dialog box titled "Remote USB Device Server Configuration". At the top, a red warning message states: "You are about to change the remote USB Server settings. After you click 'Save' button the USB Server will be reset and you need to wait for 30 seconds before re-establishing the connection." Below this, there is a "USB Server:" label followed by a dropdown menu currently showing "107". The dialog is divided into two sections: "Step 1: Change Settings:" and "Step 2: Save Settings:". In Step 1, there is a "Port:" label with a text box containing "5678" and a range "(1024 to 65535)". Below this are "Password:" and "Confirm Password:" labels, each with a masked text box (showing "xxxxxx") and a note "(4 - 10 characters or numbers)". In Step 2, there is a single "Save Settings" button. At the bottom of the dialog are "Help" and "Close" buttons.

**Remote USB Device Server Configuration**

**You are about to change the remote USB Server settings. After you click 'Save' button the USB Server will be reset and you need to wait for 30 seconds before re-establishing the connection.**

**USB Server:**  
107

**Step 1: Change Settings:**

Port:  
5678 (1024 to 65535)

Password: xxxxxx  
Confirm Password: xxxxxx  
(4 - 10 characters or numbers)

**Step 2: Save Settings:**

Save Settings

Help Close

- The Device Server will be restarted and when the timer counted down to zero, close the dialog.

**Remote USB Device Server Configuration**

**You are about to change the remote USB Server settings. After you click 'Save' button the USB Server will be reset and you need to wait for 30 seconds before re-establishing the connection.**

**USB Server:**  
 107

**Step 1: Change Settings:**

Port:  
 5678 (1024 to 65535)

Password:  Confirm Password:   
 (4 - 10 characters or numbers)

**Step 2: Save Settings:**

Save Settings

**Step 3: Wait...**

**13**

Help Close

- If you have made the changes successfully, the password and the port of the current Connection will be changed automatically.
- Double click on the Connection icon to re-establish the communications.

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## 5. Extending Network

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### Connect More Than 10 Loggers

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Because the Device Server provides the power source to all connected data loggers, the maximum data loggers that can be powered by the Device Server is limited to 10. If you need to connect more than 10 data loggers, you must use self-powered USB hub and the power supply of the hub should be +5VDC.

Each data logger consumes about 0.125W when it is powered by the USB port. Please check the power capacity of the USB hub when you choose one and decide how many data loggers it can drive.



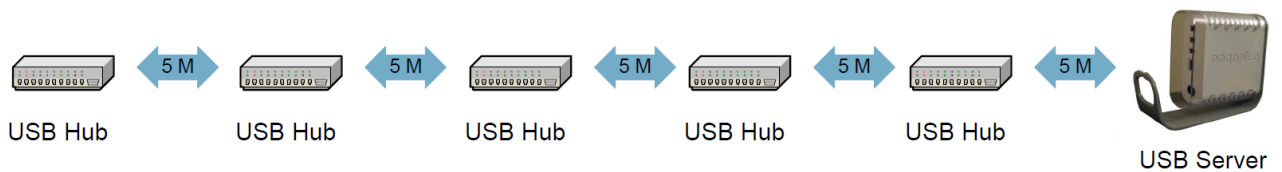
A Self-Powered USB Hub

## Extend USB Cable

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According to USB standard, USB operating specifications limit the maximum length of the cable to 5 meters. 5 meters is around 16 feet 5 inches.

The USB standard allows up to 5 hubs between a USB host device and USB slave device. If you use cables of 5 meter each, this gives a total cable length between the USB Device Server and the data logger of 30 meter.





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## 6. Specifications

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<b>General Information</b>	
Product Name	Site USB Device Server
Model	DSS-1
Software	SiteView as client side software
IP Addressing	Dynamic
Power Requirements	110 – 240VAC, 50 - 60HZ 400mA
Approvals	CE, FCC, UL
<b>Connectors</b>	
Ethernet	1 – RJ45 Female (Ethernet cable included)
USB	4 – USB A Female
<b>Capability</b>	
Max. Loggers	Up to 25 Site-Log loggers can be connected to the Server. Self-powered USB hubs required if more than four loggers.
Max. Clients	Up to 20 clients can access Site-Log data logger at the same time.
Max. Baud Rate	115200 bps
<b>Physical</b>	
Dimensions	115 X 125 X 50 MM (4.5 X 4.9 X 2.0 IN)
Weight	450g